

CLAIMS:

1. A projection system for image representation with a display (61), at least one lamp (10), and at least one sensor (7) for generating a sensor signal for the detection and compensation of changes in the luminous flux provided by said at least one lamp (10), as well as with an optical component (31; 310) arranged in a light path between the lamp (10) and the display (61), which optical component allows a first light component to pass through and reflects a second light component, such that one of said light components is directed at the display (61) and the other light component is directed at the sensor (7) arranged outside the light path.
2. A projection system as claimed in claim 1, wherein the optical component is a deflection mirror (31; 310).
3. A projection system as claimed in claim 2, wherein the deflection mirror is a dichroic mirror (31) with a high reflectivity and a low transmissivity, and the sensor (7) detects the light component transmitted by said mirror.
4. A projection system as claimed in claim 1, wherein the sensor (7) is arranged such that it lies in an imaging or focusing plane (B) of a light component focused onto the display (61).
5. A projection system as claimed in claim 1, wherein the sensor (7) is arranged behind a diaphragm element (71) which lies in an imaging or focusing plane of a light component focused onto the display (61).
6. A projection system as claimed in claim 1 for the representation of color images through time-sequential projection of color strips onto the display (61), with an optical system for color separation, wherein the optical component is a dichroically coated deflection mirror (31) in one of the color channels (R, G, B).